

PATENT APPLICATION

IN THE UNITED STATES PATENT AND TRADEMARK OFFICE

#2

In re application of

Docket No: Q85611

Masakazu SATO, *et al.*

National Stage Application of
PCT/JP03/10159
-filed August 8, 2003

Confirmation No.: Not Yet Assigned

Group Art Unit: Not Yet Assigned

Filed: January 21, 2005

Examiner: Not Yet Assigned

For: METHOD FOR SELECTIVE PREPARATION OF ARYL 5-THIO- β -D-
ALDOHEXOPYRANOSIDES

INFORMATION DISCLOSURE STATEMENT
UNDER 37 C.F.R. §§ 1.97 and 1.98

Commissioner for Patents
P.O. Box 1450
Alexandria, VA 22313-1450

Sir:

In accordance with the duty of disclosure under 37 C.F.R. § 1.56, Applicant hereby notifies the U.S. Patent and Trademark Office of the documents which are listed on the attached PTO/SB/08 A & B (modified) form and/or listed herein and which the Examiner may deem material to patentability of the claims of the above-identified application.

One copy of each of the listed documents is submitted herewith, except for the following: U.S. patents and/or U.S. patent publications; and co-pending non-provisional U.S. applications filed after June 30, 2003.

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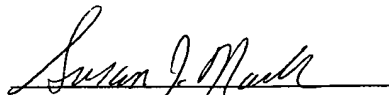
WO 03/000712 is cited in the first full paragraph of page 2 of the subject application. EP 1 405 859 is a corresponding application and is submitted as a concise statement of relevance of WO 03/000712.

The present Information Disclosure Statement is being filed: (1) No later than three months from the application's filing date; (2) Before the mailing date of the first Office Action on the merits (whichever is later); or (3) Before the mailing date of the first Office Action after filing a request for continued examination (RCE) under §1.114, and therefore, no Statement under 37 C.F.R. § 1.97(e) or fee under 37 C.F.R. § 1.17(p) is required.

The submission of the listed documents is not intended as an admission that any such document constitutes prior art against the claims of the present application. Applicant does not waive any right to take any action that would be appropriate to antedate or otherwise remove any listed document as a competent reference against the claims of the present application.

The USPTO is directed and authorized to charge all required fees, except for the Issue Fee and the Publication Fee, to Deposit Account No. 19-4880. Please also credit any overpayments to said Deposit Account.

Respectfully submitted,


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WASHINGTON OFFICE

23373

CUSTOMER NUMBER

Date: January 21, 2005

Substitute for Form 1449 A & B/PTO				Complete if Known	
				10/521809	
INFORMATION DISCLOSURE STATEMENT BY APPLICANT (use as many sheets as necessary)				Application Number	National Stage Application of PCT/JP03/10159 -filed August 8, 2003
				Confirmation Number	Not Yet Assigned
				Filing Date	January 21, 2005
				First Named Inventor	Masakazu SATO
				Art Unit	Not Yet Assigned
				Examiner Name	Not Yet Assigned
Sheet	1	of	1	Attorney Docket Number	Q85611

U.S. PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Document Number		Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document
		Number	Kind Code ² (if known)		
		US 2004/0063646	A1	04-01-2004	Fujikura, <i>et al.</i>

FOREIGN PATENT DOCUMENTS

Examiner Initials*	Cite No. ¹	Foreign Patent Document			Publication Date MM-DD-YYYY	Name of Patentee or Applicant of Cited Document	Translation ⁶
		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		EP	1 405 859	A1	04-07-2004	Kissei Pharmaceutical Co., Ltd.	
		WO	03/000712	A1	01-03-2003	Kissei Pharmaceutical Co., Ltd.	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶

Examiner Signature		Date Considered	
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*EXAMINER: Initial if reference considered, whether or not citation is in conformance with MPEP 609. Draw line through citation if not in conformance and not considered. Include copy of this form with next communication to applicant.

¹Applicant's unique citation designation number (optional). ²See Kind Codes of USPTO Patent Documents at www.uspto.gov, MPEP 901.04 or in the comment box of this document. ³Enter Office that issued the document, by the two-letter code (WIPO Standard ST. 3). ⁴For Japanese patent documents, the indication of the year of the reign of the Emperor must precede the serial number of the patent document. ⁵Kind of document by the appropriate symbols as indicated on the document under WIPO Standard ST. 16 if possible. ⁶Applicant is to indicate here if English language Translation is attached.

Substitute for Form 1449 A & B/PTO				Complete if known	
				10/521809	
REFERENCES CITED IN THE INTERNATIONAL SEARCH REPORT <i>(use as many sheets as necessary)</i>				Application Number	National Stage Application of PCT/JP03/10159 -filed August 8, 2003
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FOREIGN PATENT DOCUMENTS

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		Country Code ³	Number ⁴	Kind Code ⁵ (if known)			
		WO	01/16147	A1	03-08-2001	Kissei Pharmaceutical Co., Ltd.	
		EP	1213296	A1	06-12-2002	Kissei Pharmaceutical Co., Ltd.	
		WO	01/68660	A1	09-20-2001	Kissei Pharmaceutical Co., Ltd.	
		EP	1270584	A1	01-02-2003	Kissei Pharmaceutical Co., Ltd.	
		WO	01/74834	A1	10-11-2001	Bristol Myers Squibb Co	
		WO	01/74835	A1	10-11-2001	Bristol Myers Squibb Co	
		WO	02/36602	A1	05-10-2002	Ajinomoto Co., Inc.	
		EP	1338603	A1	08-27-2003	Ajinomoto Co., Inc.	
		WO	02/053573	A1	07-11-2002	Kissei Pharmaceutical Co., Ltd.	
		JP	10-237089	A	09-08-1998	Tanabe Seiyaku Co., Ltd.	
		EP	850948	A1	07-01-1998	Tanabe Seiyaku Co., Ltd.	

NON PATENT LITERATURE DOCUMENTS

Examiner Initials*	Cite No. ¹	Include name of the author (in CAPITAL LETTERS), title of the article (when appropriate), title of the item (book, magazine, journal, serial, symposium, catalog, etc.), date, page(s), volume-issue number(s), publisher, city, and/or country where published.	Translation ⁶
		BOZO, <i>et al.</i> "Synthesis of 4-cyanophenyl and 4-nitrophenyl 1,5-dithio-L- and -D-arabinopyranosides possessing antithrombotic activity". <i>Carbohydrate Research</i> , 1998, 311, pages 191-202	
		K.D. RANDELL, <i>et al.</i> "Synthesis and glycosides inhibitory activity of 5-thioglucopyranosylamines. Molecular modeling of complexes with glucoamilase." <i>Carbohydrate Research</i> , 1999, 321, pages 143-156	
		H. YUASA, <i>et al.</i> "Relative Nucleophilicity of the Two Sulfur Atoms in 1,5-Dithioglucopyranoside." <i>Angew.Chem.Int.Ed.Engl.</i> , 1997, 36(8), pages 868-870	

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